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AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended) [[A]] The machine according to claim [[1]] 20, in which the brightness

sensor measurement element is capable of detecting adapted to detect changes in voltage caused

by differences in brightness.

4. (Currently Amended) [[A]] The machine according to claim [[1]] 20, having two or more

light sources, comprising a plurality of light sources of different colours.

5. (Currently Amended) [[A]] The machine according to claim [[1]] 20, further comprising a

collecting device for the waste, a said brightness sensor being wherein the photoelectric sensor is

arranged to monitor waste in the collecting device.

6. (Currently Amended) [[A]] The machine according to claim 5, in which the collecting device

is a pneumatic pipe-line.

7. (Currently Amended) [[A]] The machine according to claim 5, in which the collecting device

is a suction removal hood.

8. (Currently Amended) [[A]] The machine according to claim 5, in which the waste can be is

conveyed through the collecting device.

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- 9. (Currently Amended) [[A]] <u>The</u> machine according to claim 5, in which the brightness photoelectric sensor is arranged in a wall region of the collecting device.
- 10. (Currently Amended) [[A]] The machine according to any claim 5, in which there are a plurality of suction removal hoods and guide vanes, and at least one separate brightness photoelectric sensor is associated with each suction hood location or each guide vane.
- 11. (Currently Amended) [[A]] <u>The</u> machine according to claim 5, comprising a central waste-collecting line, the <u>brightness photoelectric</u> sensor being associated with the central waste-collecting line.
- 12. (Currently Amended) [[A]] <u>The</u> machine according to claim [[1]] <u>20</u>, comprising an electronic evaluation device arranged to determine one or more parameters selected from: the variation of the brightness of the good fibres; the coefficient of variation of the brightness of the good fibres; and the standard deviation of the brightness of the good fibres.
- 13. (Currently Amended) [[A]] <u>The</u> machine according to claim [[1]] <u>20</u>, comprising a control device <u>which can adapted to</u> compare the measured results with prespecified quantities and, in the event of a departure therefrom, effect a modification of the waste separation.
- 14. (Currently Amended) [[A]] <u>The</u> machine according to claim 12, which comprises at least one waste separation element being adjustable in dependence on measurement results from the evaluation device.

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15. (Currently Amended) [[A]] <u>The</u> machine according to claim 14, in which the or each waste separation element is a guide vane or a separating blade.

16. (Currently Amended) [[A]] <u>The</u> machine according to claim 14, which further comprises at least one angle-measuring device, the angle-measuring device and the evaluation device being connected to a control and regulation device.

17. (Currently Amended) [[A]] <u>The</u> machine according to claim [[1]] <u>20</u>, in which the measurement results are usable in a control and regulation circuit for optimizing the cleaning of the fibre material.

18. (Currently Amended) [[A]] <u>The</u> machine according to claim [[1]] <u>20</u>, in which the sensor arrangement ean be used for determining is adapted to detect a blockage of fibre material in the collecting device.

19. (Cancelled)

20. (New) A spinning preparation machine in which waste is separated from fibre material, comprising:

a sensor arrangement comprising a light source adapted to project light onto the waste, and a photoelectric sensor adapted to detect light reflected from the waste and convert the reflected light into electrical signals; and

a measurement element adapted to measure the electrical signals.

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21. (New) A spinning preparation machine in which waste is separated from fibre material,

comprising:

a collecting device through which the waste moves;

at least one sensor arrangement associated with the collecting device, the sensor

arrangement comprising a light source adapted to project light onto the waste, and a photoelectric

sensor adapted to detect light reflected by good fibres in the waste and convert the reflected light

into electrical signals; and

a measuring element adapted to measure the electrical signals.

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